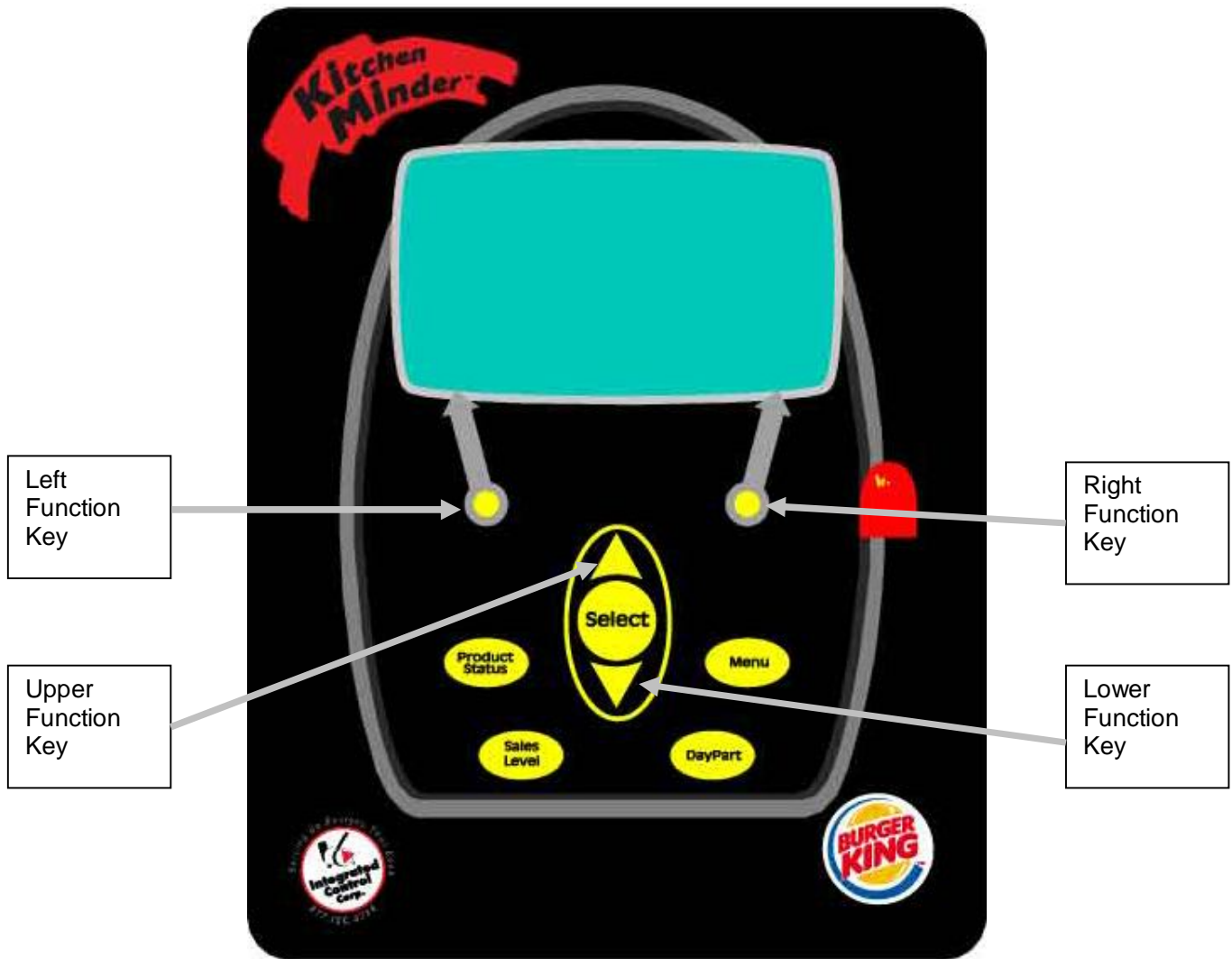




Kitchen Minder™

INSTALLATION INSTRUCTIONS



NOTE: Throughout this Manual:
A bullet (•) indicates a function description
A numbered prefix (1.) indicates a procedure

Materials Needed for Installation

Kitchen Minder & Makin' the Grade Display

Qty	Part Number	Description
1	980519	Kitchen Minder
1	980517	Grade Display

Install Kit for use with ICC Timer Bars (Duke or Prince Castle)

Qty	Part Number	Description
1	802512	9" Mounting Bracket
1	681-8x8-600- BLU	50' Cat5 Cable, Blue
1	681-8x8-600- BLK	50' Cat5 Cable, Black
1	681-8x8-120-RED	10' Cat5 Cable, Red
1	681-8x8-300-GRY	25' Cat4 Cable Grey
1	801319	12V, 1.25A Power Supply & line cord
2	890195	Software Chips for Black Boxes
12	600000	3" Cable Ties
6	660021	7" Cable Ties
1	660019-6	6' Split Loom Tubing
1	681-6x6-900	75' 6Cond Tel cable, RJ12, PC POS/KM
1	801112	RJ-12 DB9 Adapter, PC POS/KM

OR

Install Kit for use with Prince Castle Timer Bars

Qty	Part Number	Description
1	802512	9" Mounting Bracket
1	681-8x8-120-RED	10' Cat5 Cable, Red
1	681-6x6-120	10' 6 Cond Tel cable
1	681-6x6-600	50' 6 Cond Tel cable
1	681-8x8-300-GRY	25' Cat4 Cable Grey
1	681-6x6-60	5' 6 Cond Tel cable
1	801319	12V, 1.25A Power Supply & line cord
12	600000	3" Cable Ties
6	660021	7" Cable Ties
1	660019-6	6' Split Loom Tubing
1	681-6x6-900	75' 6Cond Tel cable, RJ12, PC POS/KM
1	801112	RJ-12 DB9 Adapter, PC POS/KM
1	990195-70	PC Translator

Flexi-16 swap option (if required):

Part Number	Description
980560	Flexi-16 swap with latest software.

Mounting Bracket Options

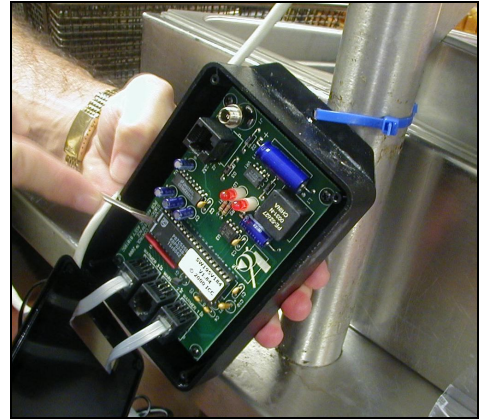
Qty	Part Number	Description
1	802513-1	PHU Bracket Kit, DUKE
1	802513-2	PHU Bracket Kit, PRINCE CASTLE
1	802513-5	Adjustable Chase w/Bracket
1	802513-6	Chase Ceiling Height Adaptor
1	802503-6	U-Channel

Tools Required:

6' Ladder
 Large and small Phillips-head screwdrivers
 Small Flat-head screwdriver
 Wire Cutters
 Sheetrock Knife or Box Cutter
 Pliers or adjustable wrench

Change Software Chips in Station Interface Boxes (required for ICC Timer Bar Installations only)

- The software in each Phase 1 Black Box needs to be changed in order to communicate properly with the Kitchen Minder.
1. Locate the Black Boxes for the Main and Specialty board and perform this procedure for each box.
 - A. Internal to Duke PHU**
 - 1) Power off PHU.
 - 2) Unscrew right side (front perspective) panel of PHU.
 - 3) Locate Black Box power connector and disconnect. Do NOT reconnect; the Minder receives power from the data cable that will be attached later.
 - 4) Unplug all telephone type connectors from the box.
 - 5) Unscrew 4 small Phillips screws in Black Box cover.
 - 6) Locate the 40-pin microcontroller chip at location U1 on the printed circuit board.
 - 7) Using a small flat-head screwdriver, gently pry up chip, remove and discard.
 - 8) Place the new chip over the socket lining up the dimple on the end of the new chip with the dimple pattern on the printed circuit board. Align the pins on the chip to the socket and press the chip in evenly. Inspect the pins for bent legs.
 - 9) Reinstall the cover on the Black Box.
 - 10) Reattach the data cables. PHUs get plugged into *Warmer 1* and/or *Warmer 2* ports.
 - 11) Reinstall PHU side cover.
 - B. External to PHU**
 - 1) Perform functions 3 – 10 as described above.
 - 2) Unplug the existing wall transformer from outlet and remove from kitchen. The Black Box receives power from the Kitchen Minder data cable that will be attached later.
 - C. Flexi-16 (optional)**
 - 1) If a Flexi-16 was shipped with your Kitchen Minder System, it has the latest software installed in it. No software chip needs to be changed.
 - 2) If you currently have the Flexi-16, contact ICC to simply swap out a new unit for your existing unit.



Mounting Kitchen Minder

- The Kitchen Minder should be mounted near the broiler end of the main preparation board. Access should be available for the minder while preventing significant interference with the team member working on the main sandwich board.
- Use the pre-determined mounting location scouted during the initial Minder site-inspection to mount the Kitchen Minder by one of the following methods:

A. Mount Kitchen Minder to existing chase, using the hardware that came with the mounting kit. Attach the Kitchen Minder to an existing chase and tighten all screws. **(See Photo 1)**

- **NOTE – If mounting to existing chase, be certain to inspect wiring inside chase before drilling holes!**

B. Mount Kitchen Minder Bracket to top of the Duke or Prince Castle PHU using the optional PHU mounting bracket **(See Photo 2)**. Follow the instructions included with the mounting bracket for installation.

C. For restaurants without an existing chase near the steamer, an optional chase and PHU mounting bracket can be used to provide a professional-looking installation. **(See Photo 3)**. The chase is pre-drilled to allow for internal installation of an existing external PHU black box, as well as for the addition of an electrical junction box if needed. Restaurants with a higher than average ceiling can also install an optional ceiling height chase adaptor. See the instructions included with these optional mounting components for detailed installation procedures. Additional information on these mounting options can be found in the Kitchen Minder Implementation Guide.



PHOTO 1



PHOTO 2



PHOTO 3

Mounting the Grade sign

1. The grade sign clips to the hanging ceiling cross bar. Choose a location for the Grade sign above the Kitchen Minder so it can easily be seen by the staff in the kitchen, as well as the manager working at the counter.



Managers Assistant (Optional) Mounting

The Manager's Assistant is installed using the same Panavise bracket used on the Kitchen Minder (supplied). The preferred mounting location is by the front counter, either on top of the heat chute (**See Photo 4**) or on the right hand side of the front counter (on the wall facing the manager). Inspect the heat chute carefully before installing bracket into top of heat chute (**See Photo 5**).

Managers Assistant Power Supply

1. Connect the AC line cord to the 12V power supply (PN 801319) and connect the line cord plug to the 120V AC outlet closest to the Managers Assistant. Secure the power supply and any extra line cord out of the work area. Run the power supply output to the back of the Managers assistant.
2. Make sure power switch on the back of the Managers Assistant is in the "OFF" position and insert the power plug into the jack marked "PWR".



PHOTO 4



PHOTO 5

Refer to the System Wiring Diagram located at the end of this manual for all wiring connections.

Refer to the System Wiring Diagram located at the end of this manual for all wiring connections.

Run Data Cables to the Kitchen Minder

- Run a 10' red Cat5 Cable from the main board PHU black box (see next section) to the Kitchen Minder.
- Run a 50' black Cat5 Cable from the Specialty board PHU black box to the Kitchen Minder.
- Run a 50' blue Cat5 Cable from the Flexi-Timer (optional) to the Kitchen Minder.
- Run a 25' gray Cat5 Cable from the Makin' the Grade sign to the Kitchen Minder (without optional Managers Assistant).
- Restaurants with optional Manager's Assistant
- Run a 50' gray Cat5 cable from the Kitchen Minder to the Managers Assistant.
- Run a 25' gray Cat5 cable from the Manager's Assistant to the Makin' the Grade sign.

Hints:

1. Take note of where the cables need to run and run them together as much as possible.
2. Use supplied cable ties to keep wires secure and out of work area.



Power Supply

3. Connect the AC line cord to the 12V power supply (PN 801319) and connect the line cord plug to the 120V AC outlet closest to the Minder. Secure the power supply and any extra line cord out of the work area. Run the power supply output to the back of the Minder.
4. Make sure power switch on the back of the Minder is in the "OFF" position and insert the power plug into the jack marked "PWR".



POS cable

1. Run the 75' 6-conductor telephone type cable from the back of the BOH computer (usually located in the Manager's office) into the drop ceiling and down to the Minder using any chases that are available in your particular kitchen.
2. Use cable ties to secure wires and out of food work area.
3. Plug Part# 801112, PC/KM Adapter into the BOH computer end of the 75' Cable. Confer with the appropriate computer personnel for adapter connection location on the PC end.

Connecting cables to external PHU black boxes

1. Plug the Red cable at the main prep board into the PHU black box jack marked "Scoreboard". Plug the other end of this cable into the back of the Kitchen Minder, into the jack marked "COM1".
2. Plug the black cable at the Specialty prep board into the PHU black box jack marked "Scoreboard". Plug the other end of this cable into the back of the Kitchen Minder, into the jack marked "COM2".
3. Optional Flexi-Timer - plug the blue cable into the Flexi-Timer middle jack. Plug the other end of this cable into the back of the Kitchen Minder into the jack marked "COM3".



Connecting cables to Duke PHU internal black boxes

1. Plug the Red cable at the main prep board into the jack on the rear of the PHU labeled "Program". Plug the other end of this cable into the back of the Kitchen Minder, into the jack marked "COM1".
2. Plug the black cable at the Specialty prep board into the jack on the rear of the PHU labeled "Program". Plug the other end of this cable into the back of the Kitchen Minder, into the jack marked "COM2".
3. Optional Flexi-Timer - plug the blue cable into the Flexi-Timer middle jack. Plug the other end of this cable into the back of the Kitchen Minder into the jack marked "COM3".

Power Up

1. On the back of the Kitchen Minder, place the on/off switch to the ON position.
2. The screen will illuminate, show the ICC logo and send data to the Black Boxes and the Flexi-16 (if installed). After approximately 1 minute, the "Status" screen will appear.
3. Check all timer bars for red lights. If a Timer bar light is out, press the associated button. The light should illuminate red for approximately 1 second, then go out. If the light is out and/or there is no response from a button press, check all cables and Black Box chip.

Station plug-in check – If any test fails, refer to "Connecting Cables..." above.

1. Main Check - At the back of the Kitchen Minder, unplug the Com1 (red) cable. All the main timer bar lights should go out. **REPLUG COM1 cable., all Timer Bar lights on the main board should flash yellow and then turn red or out depending on the data programmed**
2. Specialty Check - At the back of the Kitchen Minder, unplug the Com2 (black) connector. All Specialty timer bar lights should go out. **REPLUG COM2 cable, all Timer Bar lights on the specialty board should flash yellow and then turn red or out depending on the data programmed**
3. Flexi-16 Check (optional) - At the back of the Kitchen Minder, unplug the Com3 (blue) cable. All Flexi-16 keyboard lights should go out. **REPLUG COM3 cable, all Timer Bar lights on the Flexi-16 should flash yellow and then turn red or out depending on the data programmed.**
4. Reset power on Kitchen Minder by turning it off and then turning it back on.

Product Location Test - Use this test to ensure that the PHU timer bars and the Flexi-Timer (if available) are connected properly to the Kitchen Minder.

1. Press Menu key.
2. Arrow down to Product Location and press the Select key.
3. A warning screen will appear, press the left function key labeled *Continue* to reset all the timers.
4. The *Find Products* screen is displayed.
NOTE – PRODUCTS WILL BE DISPLAYED THAT MAY OR MAY NOT MATCH YOUR CURRENT PHU CONFIGURATION. THIS IS DUE TO THE BASE PROGRAMMING IN THE KITCHEN MINDER, AND WILL BE CORRECTED LATER IN THE INSTALLATION PROCESS. THIS TEST IS TO SIMPLY CHECK THE CONNECTIONS TO THE TIMER BARS AND FLEXI-TIMER (IF PRESENT).
5. If a PHU is plugged into the Warmer 1 port of the main board PHU black box, one LED on the PHU timer bar will illuminate red. All other LEDs should be out.
6. On the Kitchen Minder, press the right function key labeled NEXT. The next warmer number will be displayed. If a PHU is not plugged into the Warmer 2 port of the main board PHU black box, continue to push the NEXT function key until Warmer 4 is displayed.
7. If a PHU is plugged into the Warmer 1 port of the Specialty board PHU black box, one LED on one of the Specialty board PHUs will illuminate red. All other LEDs should be out. Select the NEXT function key on the Kitchen Minder to display Warmer 5.
8. If a PHU is plugged into the Warmer 2 port of the Specialty board PHU black box, one LED on one of the Specialty board PHUs will illuminate red, all others should be out.
9. If a Flexi-16 is connected, continue pressing the NEXT function key on the Kitchen Minder until Warmer 7 is displayed. One light on the top two rows of the Flexi-16 should be lit, the others out. Select NEXT to display warmer 8. One light on the bottom two rows of the Flexi-16 should be lit.
10. If any of the above tests fail, re-check all wire connections from the PHU black boxes to the Kitchen Minder to correct.
11. When all timer bars are functioning properly using the above test, Press *Menu*.

Programming Products into PHUs:

1. If using PC Minder, refer to the Kitchen Minder Manager's Guide for initial set-up of PC Minder.
2. If no BOH is used, see the Kitchen Minder Reference Guide for instructions on setting up PHU warmers.

```

>>>>>  Menu  >>>>>

"Kind of Day" Menu
Program Sales Level
Program Product Mix
Program Warmers
Product Location
Set Time
Comm Mode: Serial
  
```

```

>>>>>  Find Products  >>>>>
  
```

!!!WARNING!!!

All Active Timers Will Be Reset

Continue

Cancel

```

>>>>>  Find Products  >>>>>
  
```

Warmer 1

Saus	Saus	Bk Egg	Bk Egg
060 003	060 003	045 008	045 008
Saus	Saus	Bk Egg	Bk Egg
060 003	060 003	045 008	045 008

Hold Cook

Prev

Day Part 1

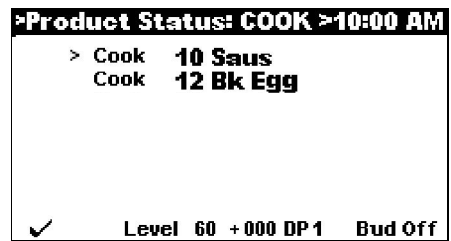
Next

PHU black box – Warmer alignment:

Black Box Warmer	Kitchen Minder
Main Board 1	Warmer 1
Main Board 2	Warmer 2
Main Board 3	Warmer 3
Specialty Board 1	Warmer 4
Specialty Board 2	Warmer 5
Specialty Board 3	Warmer 6
Flexi-16 (top 2 rows)	Warmer 7
Flexi-16 (bot. 2 rows)	Warmer 8

To set the Kitchen Minder on the correct day part:

- 1) Press *Product Status*.
- 2) If the current time is before 10:15am, the Kitchen Minder should be in DP1 which is indicated on the bottom right of the *Status* screen. DP2 should be displayed if it is 10:15am or later.
- 3) Adjust the Daypart accordingly by pressing *Daypart*.
- 4) The Makin' the Grade sign should now also be activated.



>Product Status: COOK >10:00 AM
> Cook **10 Saus**
Cook **12 Bk Egg**
✓ Level 60 +000 DP1 Bud Off

Setting the Time, Date, Day of Week and Restaurant# on the Kitchen Minder:

- 1) Select "Set Time" from main menu of Kitchen Minder.
- 2) Use the "Select" key to highlight the hours, minutes, date, day of week or Restaurant# to be modified.
- 3) Use the up or down arrow keys on the Kitchen Minder to adjust the field. Use the "Select" key to advance to the next field.
- 4) When finished, use the left hot key (labeled "Set Time" on bottom left of screen).
- 5) Return to main menu by selecting "Menu" key on Kitchen Minder.

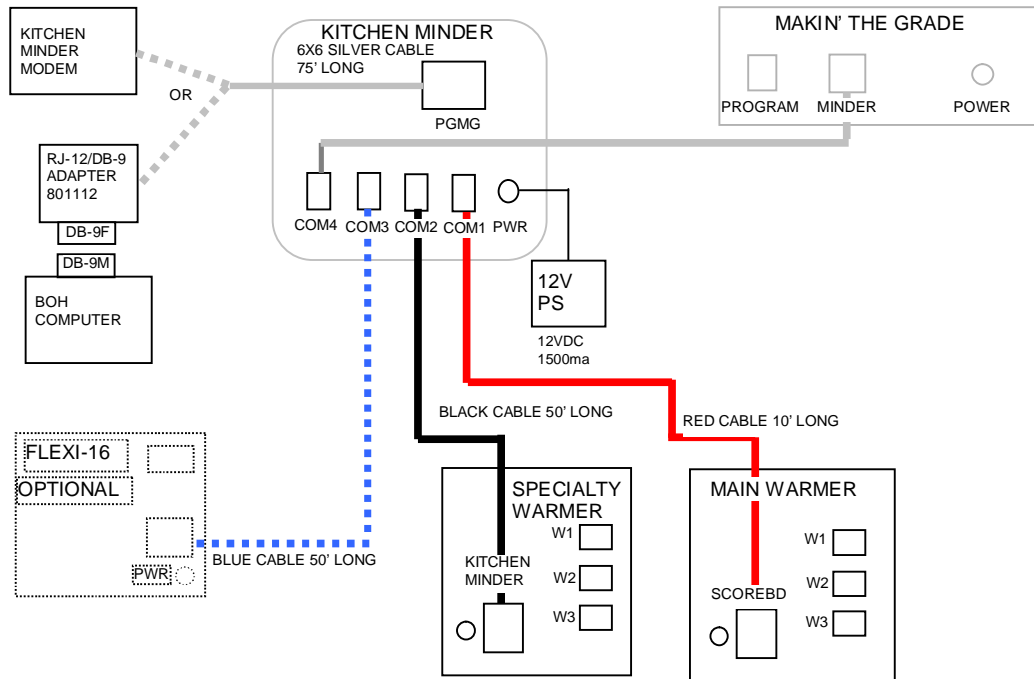


>>>> Edit Time >>>>
02:47PM
08/21/06
Mon
Rest. # 0000008
Set Time Cancel

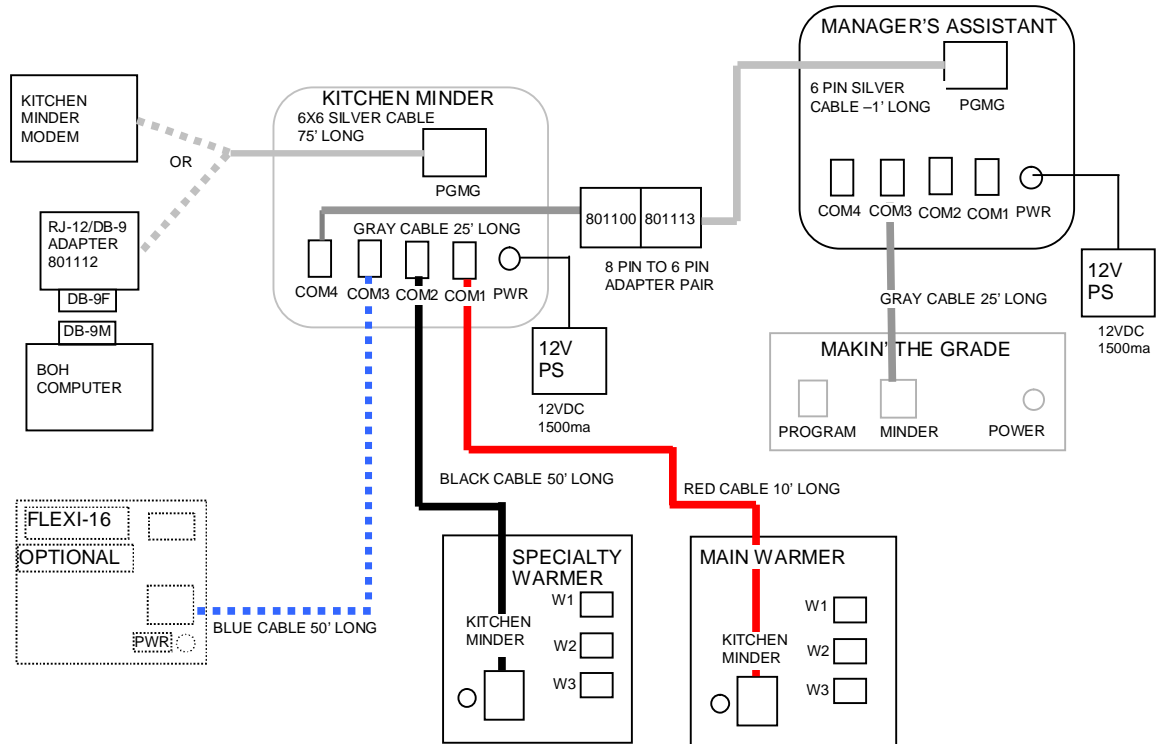
Optional Managers Assistant

- 1) Power ON the Manager's Assistant.
- 2) Clear any messages displayed on the Kitchen Minder by pressing the SELECT key.
- 3) On the Kitchen Minder, press the Sales Level key. Press the Select key.
- 4) The Manager's Assistant will display a Product Status Screen mirroring the Kitchen Minder.

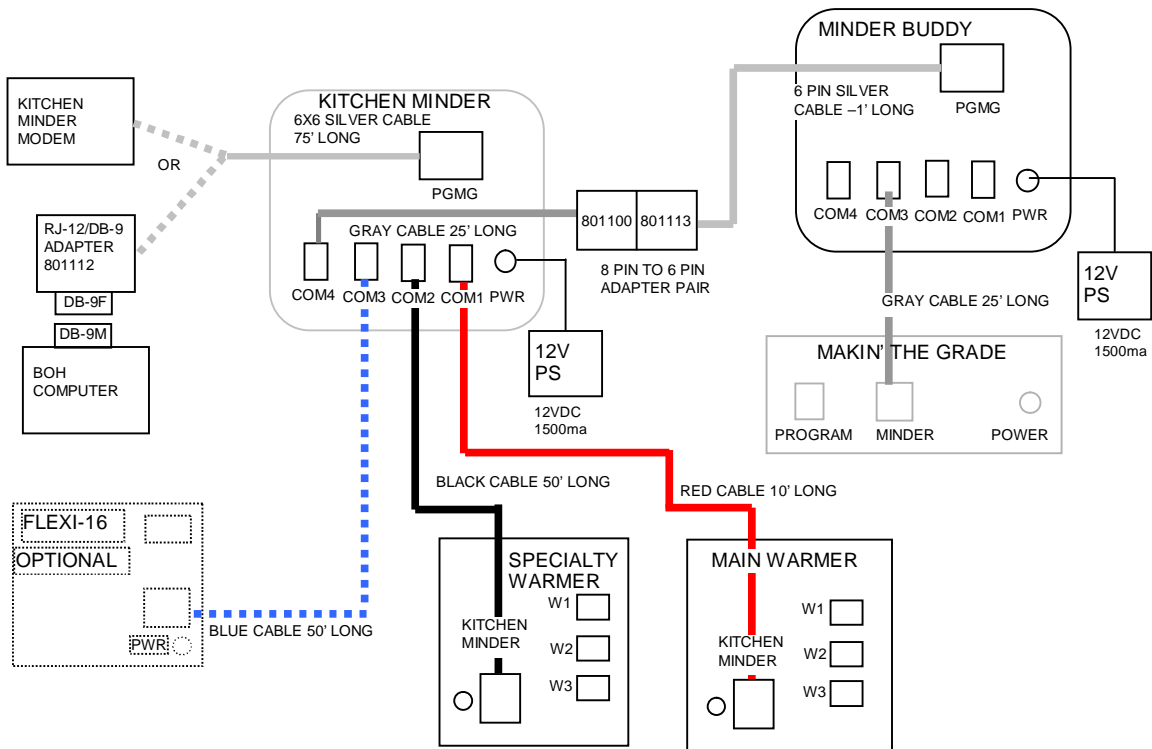
Kitchen Minder Wiring Diagram (Basic with ICC Timer Bars)



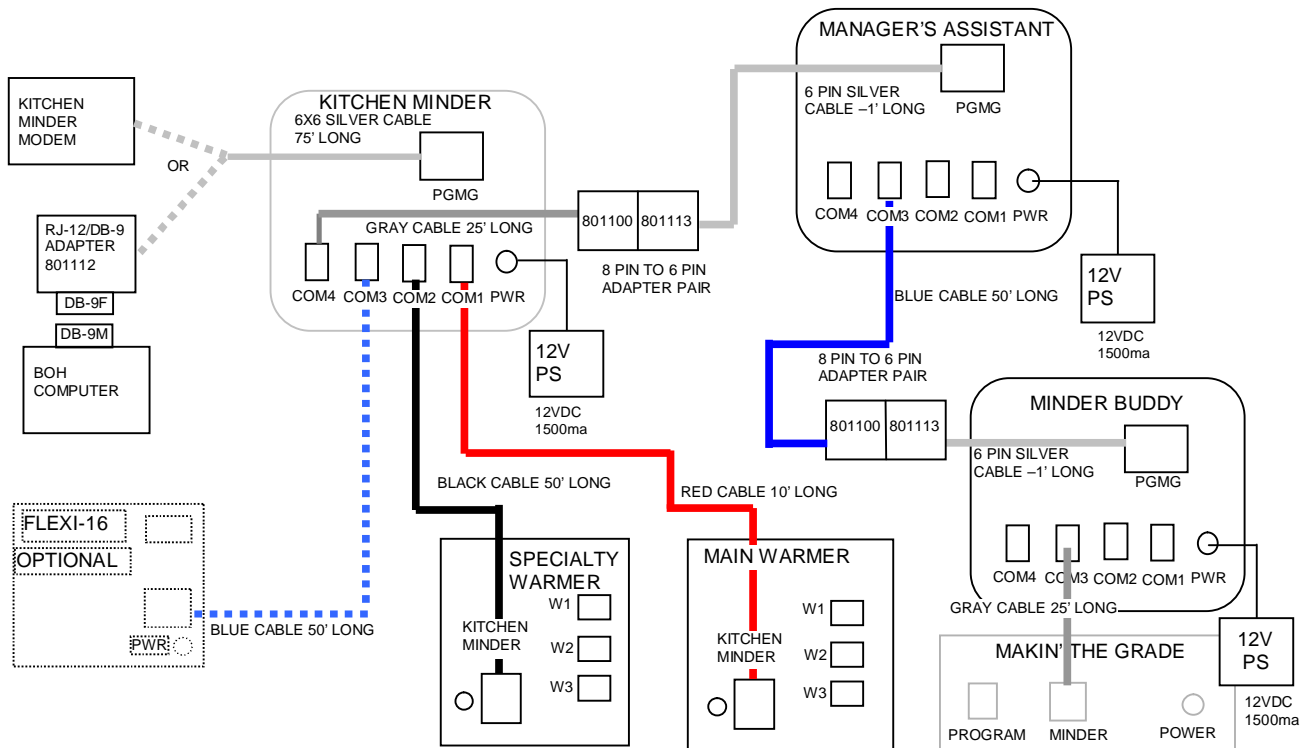
Kitchen Minder Wiring Diagram (with ICC Timer Bars & Manager's Assistant)



Kitchen Minder Wiring Diagram (with ICC Timer Bars & Minder Buddy)



Kitchen Minder Wiring Diagram (with ICC Timer Bars, Manager's Assistant & Minder Buddy)



**Addendum to Kitchen Minder Installation Manual
Installation Modifications for Restaurants using Prince Castle PHUs**

Installation Instruction Modifications for Restaurants with Prince Castle PHUs

When installing the Kitchen Minder in a restaurant that uses Prince Castle PHUs (product holding units) the following changes to the Installation Instructions are needed:

- 1) Omit the S/W chip change described on page 3 of the Installation Manual
- 2) Install the Kitchen Minder using the P.C. PHU Bracket Kit (ICC P/N 896510-2)
- 3) Install the P.C. Translator Assembly near the Main Prep Board PHU
- 4) Interconnect the Kitchen Minder as shown in the P.C. Wiring Diagram below

2) Install the Kitchen Minder using the P.C. PHU Bracket Kit (ICC P/N 896510-2)

The Prince Castle bracket is installed onto the top surface of the PHU as shown in the Installation Manual.

3) Install the P.C. Translator Assembly

The P.C. Translator Assembly is installed in a convenient location near the Main Prep Board that will facilitate the installation of the interconnecting cables.

4) Connect the Kitchen Minder and the PHUs

as shown in the wiring diagram below. Refer to Figure 1 for physical location of connectors on the rear of the Prince Castle PHUs.

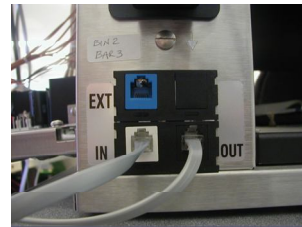


Figure 1

